

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002356

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04Q7/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2003/104849 A1 (ARIMITSU KAZUHIRO) 5 June 2003 (2003-06-05) paragraph '0002! - paragraph '0004! paragraph '0028! - paragraph '0030! paragraph '0047! - paragraph '0050! figures 1,4	1,2,4,8, 11-13 3,5-7,9, 10
X Y	US 5 623 533 A (MURAKAMI YASUYUKI ET AL) 22 April 1997 (1997-04-22) column 1, line 65 - column 2, line 22 column 5, line 38 - line 46 ----- -/-	1,4, 11-13 3,5-7,9, 10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

8 September 2004

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22/10/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 0 553 771 A (BOSCH GMBH ROBERT) 4 August 1993 (1993-08-04) column 1, line 33 - line 41 column 2, line 42 - column 3, line 8 figures 1,4 -----	1,2,4, 11-13 3,5-10
X A	US 6 427 072 B1 (REICHELT MARTIN) 30 July 2002 (2002-07-30) column 2, line 3 - line 33 -----	1,4, 11-13 2,3,5-10
A	US 5 870 685 A (FLYNN JAMES M) 9 February 1999 (1999-02-09) column 7, line 16 - line 37 column 10, line 8 - line 42 -----	1-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002356

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003104849	A1	05-06-2003	JP 2003169011 A CN 1431790 A GB 2384655 A	13-06-2003 23-07-2003 30-07-2003
US 5623533	A	22-04-1997	JP 6069853 A JP 6085672 A	11-03-1994 25-03-1994
EP 0553771	A	04-08-1993	DE 4205437 C1 AT 164978 T DE 59308363 D1 EP 0553771 A2 JP 5344043 A	08-07-1993 15-04-1998 14-05-1998 04-08-1993 24-12-1993
US 6427072	B1	30-07-2002	AU 2401100 A CN 1346531 T EP 1147592 A1 JP 2002534827 T TR 200101900 T2 WO 0039908 A1	31-07-2000 24-04-2002 24-10-2001 15-10-2002 21-12-2001 06-07-2000
US 5870685	A	09-02-1999	AU 4093897 A WO 9810610 A1	26-03-1998 12-03-1998